SciColab.com – Web 2.0 Scientific Collaboration

@ScienceHouse NYC Feb 5, 2010

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The 3 components to a “Colab”

**Figure 1.** SciColab.com high-level overview of the three views, 1) User Profile 2) Paper/Experiment Forums and 3) Private Group/Workspace.
Open-access initiatives from universities and scholars
Authors would like to make a comment publicly about a published paper without writing a letter to the editor or writing an entire paper in response. A few sentences/paragraphs on the web.
Arxiv.org is treated as an “archive” of research work by many scientists. Authors do not want general comments on Arxiv.org.
Twitter – “tweet up” new articles via simple API’s Topsy, Tweetmeme, etc. measure of readership, voting. Continuous linear scale, not 5-star scale.
Manage research projects and collaborators

• Groups have 4 levels of access permissions:
  1) Public 2) Private 3) Open 4) Invisible

• Groups can maintain any types of content from workflows and co-author data to microscope images and manuscript text

• Manage existing *physical* Lab/PI groups and create new ones
Market Size, Market Penetration & Profitability

$259,160 \times 0.10 \times $10/\text{mo.} \times 12\text{mos} = $3,109,920/\text{yr.}$
Some background

• Science Citations & pre-print services
  – Arxiv.org
  – PubMed
  – ISI Web of Knowledge/Science Thomson
  – Science Citations

• Web 2.0/Enterprise 2.0
  – Jive Clearspace (Twitter-Facebook-MySpace)
  – 37 Signals’ Basecamp – “Basecamp for scientists”
Quantum classification

Sébastien Gambs

(Submitted on 2 Sep 2008 (v1), last revised 2 Sep 2008 (this version, v2))

Quantum classification is defined as the task of predicting the associated class of an unknown quantum state drawn from an ensemble of pure states given a finite number of copies of this state. By recasting the state discrimination problem within the framework of Machine Learning (ML), we can use the notion of learning reduction coming from classical ML to solve different variants of the classification task, such as the weighted binary and the multiclass versions.

Comments: Preliminary version, comments are welcome
Subjects: Quantum Physics (quant-ph), Learning (cs.LG)
Cite as: arXiv:0809.0444v2 [quant-ph]

Submission history
From: Gambs Sébastien [view email]
[v1] Tue, 2 Sep 2008 19:56:54 GMT (25kb)
[v2] Tue, 2 Sep 2008 20:02:34 GMT (25kb)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.
Site Comparison of arxiv.org (rank #30,300), pubmed.gov (#76,616), ncbi.nlm.nih.gov, epernicus.com (#216,746), ning.com (#223)
### Recent content

#### Spectroscopic Properties of Polaron in Strongly Correlated Systems by Exact Diagrammatic Monte Carlo Method

3 month(s) ago in SciCoLab

We present recent advances in understanding of the ground and excited states of the electron-phonon coupled systems obtained by novel methods of Diagrammatic Monte Carlo and Stochastic Optimization, which enable the approximation-free calculation of Matsubara Green function in imaginary times and perform unbiased analytic continuation to real frequencies. We present exact numeric results on the ground state properties, Lehmann spectral function and optical conductivity of different strongly correlated systems: Fröhlich polaron, Rashba-Peres exciton-polaron, pseudo-Jahn-Teller polaron, exciton, and interacting with phonons hole in the 1D model. (Comment: 41 pages, 13 figures, in "Polaron in Advanced Materials" ed. A. S. Alexandrov (Canopus/ Springer Publishing, Bristol (2007), pp. 503-514.

**By:** Dean Powers

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BiolHalt TeX file

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Quantum Classification

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Created by Russell Hanson Last modified at 22.05.2009 14:38 PM

Title: Knill 1999 Quantum Computation and Quadratically Signed Weight Enumerators Authors: E. Knill, R. Laflamme (Submitted on 30 Sep 1999) 9908054v1.pdf (Download)
Size: 136 KB

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“Whatever is investigated by human reason commonly also contains falsehood, and this derives partly from the weak judgment of our intellect and partly from the admixtures of pictures. Consequently many, who remain unaware of the power of visualization, will doubt such things that have been most truly demonstrated. This is the case especially because each one having a reputation as a wise man teaches his own version of the creed. In addition, many truths that are taken to be demonstrated also encompass something false, something which has not been truly demonstrated but rather is claimed on the basis of some probable or contrived argument, which is nevertheless taken to be a valid demonstration.”

Thomas of Aquinas 1224 – 1274

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